

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	985	428/694T or 428/694TM	USPAT; US-PGPUB	OR	OFF	2005/06/23 15:42
L2	296	(428/694\$ or 369/13.\$ or "360"/("131,135,136")) and ("perpendicular magnetic") and ("soft magnetic") and "underlayer"	USPAT; US-PGPUB	OR	ON	2005/06/23 15:32
L3	115	((428/694\$ or 369/13.\$ or "360"/("131,135,136")) and ("perpendicular magnetic") and ("soft magnetic") and "underlayer") and loop\$	USPAT; US-PGPUB	OR	ON	2005/06/23 15:32
L4	169	(((428/694\$ or 369/13.\$ or "360"/("131,135,136")) and ("perpendicular magnetic") and ("soft magnetic") and "underlayer") and loop\$) and ("soft magnetic" with (underlayer or perpendicular))) and ("soft magnetic" with (underlayer or perpendicular))	USPAT; US-PGPUB	OR	ON	2005/06/23 15:35
L5	13	((((428/694\$ or 369/13.\$ or "360"/("131,135,136")) and ("perpendicular magnetic") and ("soft magnetic") and "underlayer") and loop\$) and ("soft magnetic" with (underlayer or perpendicular))) and ("soft magnetic" with (underlayer or perpendicular)) and ("soft magnetic" with nm with "NiFe")	USPAT; US-PGPUB	OR	ON	2005/06/23 15:35
L6	232	(perpendicular same magnetic same recording) and ((coercivity or "Hc" or "Ho") same maximum) and (thick or thickness)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/23 16:23
L7	2094	427/131 or 427/313	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/23 15:41
L8	278	360/327.\$	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/23 15:41
L9	10200	428/64.\$ or 428/65.5 or 428/611 or 428/336 or 428/693	USPAT; US-PGPUB	OR	OFF	2005/06/23 16:15
L10	0	"20050142385"	USPAT; US-PGPUB	OR	OFF	2005/06/23 16:15

L11	1	"20050123805"	USPAT; US-PGPUB	OR	OFF	2005/06/23 16:23
L12	1092	204/192.2	USPAT; US-PGPUB	OR	OFF	2005/06/23 16:23
L13	80	(l12 or l1 or l2 or l3 or l8) and (perpendicular same magnetic same recording) and ((coercivity or "Hc" or "Ho") same maximum) and (thick or thickness)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/23 16:36
L14	1	11-023256	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/23 16:36
S1	1	"6132567"	USPAT	OR	OFF	2004/06/28 13:10
S2	16	"4632883"	USPAT	OR	OFF	2003/12/23 19:14
S3	10	"5616218"	USPAT	OR	OFF	2003/12/23 19:15
S4	1	"461834"	EPO	OR	OFF	2003/12/23 19:23
S5	6344	428/694\$ or "360"/\$ or "369"/\$	EPO	OR	OFF	2003/12/23 19:24
S6	195	(428/694\$ or 369/13.\$ or "360"/("131,135,136")) and ("perpendicular magnetic") and ("soft magnetic") and "underlayer"	USPAT; US-PGPUB	OR	ON	2005/06/23 15:32
S7	0	((428/694\$ or 369/13.\$ or "360"/("131,135,136")) and ("perpendicular magnetic") and ("soft magnetic") and "underlayer") and ("closed magnetic loop")	USPAT; US-PGPUB	OR	ON	2003/12/23 19:30
S8	0	((428/694\$ or 369/13.\$ or "360"/("131,135,136")) and ("perpendicular magnetic") and ("soft magnetic") and "underlayer") and ("closed magnetic loops")	USPAT; US-PGPUB	OR	ON	2003/12/23 19:30
S9	0	((428/694\$ or 369/13.\$ or "360"/("131,135,136")) and ("perpendicular magnetic") and ("soft magnetic") and "underlayer") and ("magnetic loop\$")	USPAT; US-PGPUB	OR	ON	2003/12/23 19:30
S10	62	((428/694\$ or 369/13.\$ or "360"/("131,135,136")) and ("perpendicular magnetic") and ("soft magnetic") and "underlayer") and loop\$	USPAT; US-PGPUB	OR	ON	2005/06/23 15:32
S11	53	(((428/694\$ or 369/13.\$ or "360"/("131,135,136")) and ("perpendicular magnetic") and ("soft magnetic") and "underlayer") and loop\$) and (loop\$ same magnetic)	USPAT; US-PGPUB	OR	ON	2003/12/23 19:31

S12	9	((((428/694\$ or 369/13.\$ or "360"/("131,135,136")) and ("perpendicular magnetic") and ("soft magnetic") and "underlayer") and loop\$) and (loop\$ same magnetic)) and (loop\$ same magnetic same clos\$)	USPAT; US-PGPUB	OR	ON	2003/12/23 19:35
S13	3	((((428/694\$ or 369/13.\$ or "360"/("131,135,136")) and ("perpendicular magnetic") and ("soft magnetic") and "underlayer") and loop\$) and (loop\$ same magnetic)) and (loop\$ same magnetic same closed)	USPAT; US-PGPUB	OR	ON	2003/12/23 19:36
S14	57	((((428/694\$ or 369/13.\$ or "360"/("131,135,136")) and ("perpendicular magnetic") and ("soft magnetic") and "underlayer") and loop\$) and ("soft magnetic" with (underlayer or perpendicular)))	USPAT; US-PGPUB	OR	ON	2003/12/23 19:39
S15	57	((((428/694\$ or 369/13.\$ or "360"/("131,135,136")) and ("perpendicular magnetic") and ("soft magnetic") and "underlayer") and loop\$) and ("soft magnetic" with (underlayer or perpendicular))) and ("soft magnetic" with (underlayer or perpendicular)))	USPAT; US-PGPUB	OR	ON	2005/06/23 15:34
S16	5	(((((428/694\$ or 369/13.\$ or "360"/("131,135,136")) and ("perpendicular magnetic") and ("soft magnetic") and "underlayer") and loop\$) and ("soft magnetic" with (underlayer or perpendicular))) and ("soft magnetic" with (underlayer or perpendicular))) and ("soft magnetic" with nm with "NiFe")	USPAT; US-PGPUB	OR	ON	2005/06/23 15:35
S17	1	"6641934"	USPAT	OR	OFF	2004/06/28 17:08
S18	198	"closed magnetic loop"	USPAT	OR	OFF	2004/06/28 17:21
S19	23	"closed magnetic loop" and "magnetic recording"	USPAT	OR	OFF	2004/06/28 19:14
S20	1072	428/694t or 428/694tm	USPAT	OR	OFF	2004/06/28 19:18
S21	0	"perpendicular magnetic"/clm	USPAT	OR	OFF	2004/06/28 19:19
S22	0	"perpendicular magnetic"/cm	USPAT; US-PGPUB	OR	OFF	2004/06/28 19:19
S23	0	"perpendicular magnetic"/cl	USPAT; US-PGPUB	OR	OFF	2004/06/28 19:19
S24	4215	"perpendicular magnetic"	USPAT; US-PGPUB	OR	OFF	2004/06/28 19:21

S25	1227	428/694T or 428/694TM	USPAT; US-PGPUB	OR	OFF	2005/06/23 15:31
S26	316	(428/694T or 428/694TM) and "perpendicular magnetic"	USPAT; US-PGPUB	OR	OFF	2004/06/28 22:13
S27	31	"5616218" OR "4632883"	USPAT; US-PGPUB	OR	OFF	2004/06/28 22:14
S28	0	"0461834"	EPO	OR	OFF	2004/06/28 22:14
S29	0	EPO0461834	EPO	OR	OFF	2004/06/28 22:15
S30	1	"461834"	EPO	OR	OFF	2004/06/28 22:15
S31	232	(perpendicular same magnetic same recording) and ((coercivity or "Hc" or "Ho") same maximum) and (thick or thickness)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/21 20:30
S32	98	S31 and (underlayer or "under layer") and (soft same magnetic)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/21 22:25
S33	8	S31 and "Kim"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/21 20:38
S34	72	S32 and (reduc\$ same thickness\$)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/21 20:41
S35	2	S33 and S34	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/21 20:38
S36	50	S34 and (thickness same perpendicular)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/21 20:42
S37	232	(perpendicular same magnetic same recording) and ((coercivity or "Hc" or "Ho") same maximum) and (thick or thickness)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/23 15:35
S38	98	S37 and (underlayer or "under layer") and (soft same magnetic)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/21 22:25

S39	80	S38 and ((coercivity or "Hc" or "Ho") same (thick or thickness))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/21 22:26
S40	34	"349810" or "001218"	USPAT; US-PGPUB; EPO; DERWENT	OR	OFF	2005/06/22 14:51
S41	8	Hirotaka and Shinzo	USPAT; US-PGPUB; EPO; DERWENT	OR	OFF	2005/06/22 14:51


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1. Theoretical analysis of longitudinal and perpendicular recording potential

Richter, H.J.; Champion, E.C.; Peng, Q.;
Magnetics, IEEE Transactions on
Volume 39, Issue 2, Mar 2003 Page(s):697 - 703

Summary: The recording potentials of perpendicular recording with a magnetically soft underlayer and of longitudinal recording with a hard underlayer are compared theoretically under the constraint of write-ability and thermal stability. In contrast to longitudinal media, the recording potential of perpendicular media is much higher.

[AbstractPlus](#) | Full Text: [PDF\(418 KB\)](#) IEEE JNL

IEEE CNF IEE Conference Proceeding

- 2. Perpendicular media: alloy versus multilayer

Brucker, C.; Nolan, T.; Bin Lu; Kubota, Y.; Plumer, M.; Pu-Ling Lu; Cronch, R.; Chung-Hee Chang; Chen, D.; Michel, R.; Parker, G.; Tabat, N.;
Magnetics, IEEE Transactions on
Volume 39, Issue 2, Mar 2003 Page(s):673 - 678

Summary: Properties and performance for alloy and multilayer perpendicular recording media designs utilizing a magnetically soft underlayer are compared. Among samples considered here, grain size and grain size dispersion are more important than media thickness.

[AbstractPlus](#) | Full Text: [PDF\(791 KB\)](#) IEEE JNL

IEEE STD IEEE Standard

- 3. Perpendicular recording near 100 Gb/in²

Eppler, W.R.; Sunder, A.; Kams, D.W.; Kurtas, E.M.; Ju, G.A.; Wu, X.; van der Heijden, P.A.A.; Kubota, Y.; Chung, R.; Chang, D.; Chen, D.; Michel, R.; Parker, G.; Tabat, N.;
Magnetics, IEEE Transactions on
Volume 39, Issue 2, Mar 2003 Page(s):663 - 667Summary: Theoretical analyses have projected perpendicular recording media capable of achieving ultimate areal density of 100 Gb/in². For perpendicular recording to supplant longitudinal recording, laboratory demonstration is needed.[AbstractPlus](#) | Full Text: [PDF\(294 KB\)](#) IEEE JNL

- 4. Low-noise CoCrPtO perpendicular media with improved resolution

Velu, E.M.T.; Malhotra, S.; Bertero, G.; Wachenschwanz, D.;
Magnetics, IEEE Transactions on
Volume 39, Issue 2, Mar 2003 Page(s):668 - 672Summary: CoCrPtO perpendicular media with coercivities greater than 6000 Oe, M_r/M_s equal to 0.5, and nucleation fields exceeding 3000 Oe were produced. The crystallographic, magnetic, and recording properties of these media are presented.[AbstractPlus](#) | Full Text: [PDF\(3161 KB\)](#) IEEE JNL

- 5. Magnetic printing technology - application to HDD

5. **Ishida, T.; Miyata, K.; Hamada, T.; Hashi, H.; Ban, Y.; Taniguchi, K.; Saito, A.;**
Magnetics, IEEE Transactions on
Volume 39, Issue 2, Mar 2003 Page(s):628 - 632
Summary: As the recording density of hard disk drives is being rapidly increased, the current servo track write conventional servo track writer has become more costly and technically difficult. In order to solve the problem
[AbstractPlus](#) | Full Text: [PDF\(1228 KB\)](#) IEEE JNL

6. **High-moment FeCo-IrMn exchange-coupled soft underlayers for perpendicular media**
Jung, H.S.; Doyle, W.D.;
Magnetics, IEEE Transactions on
Volume 39, Issue 2, Mar 2003 Page(s):679 - 684
Summary: Ferromagnetic/antiferromagnetic coupled multilayers provide a unique solution to several problems underlayers for perpendicular media. Properly designed, they demonstrate outstanding characteristics: a unique remanent direction.....
[AbstractPlus](#) | Full Text: [PDF\(406 KB\)](#) IEEE JNL

7. **Transition jitter estimates in tilted and conventional perpendicular recording media at 1 Tb/in²**
Kai-Zhong Gao; Bertram, H.N.;
Magnetics, IEEE Transactions on
Volume 39, Issue 2, Mar 2003 Page(s):704 - 709
Summary: The recent proposal of tilted perpendicular recording for Tb/in²/densities is extended here to intergranular exchange and anisotropy distributions on signal-to-noise ratio. This new recording system includes.....
[AbstractPlus](#) | Full Text: [PDF\(418 KB\)](#) IEEE JNL

8. **Obliquely sputtered TbFe giant magnetostrictive films with in-plane anisotropy**
Jiang, H.C.; Zhang, W.L.; Peng, B.; Zhang, W.X.; Yang, S.Q.;
Magnetics, IEEE Transactions on
Volume 41, Issue 4, April 2005 Page(s):1222 - 1225
Summary: We have found that in-plane magnetostriction characteristics at low fields can be greatly improved by sputtering technique. We report a study of deposition of in-plane anisotropic TbFe giant magnetostrictive films at oblique s.....
[AbstractPlus](#) | Full Text: [PDF\(616 KB\)](#) IEEE JNL

9. **Media and tip trajectory optimization for high-density MFM-based perpendicular recording**
El-Sayed, R.T.; Carley, L.R.;
Magnetics, IEEE Transactions on
Volume 41, Issue 3, March 2005 Page(s):1209 - 1217
Summary: In this paper, we investigate the feasibility of using a magnetic force microscopy scheme for recording magnetic marks for ultrahigh-density, ultralow power applications. We will address the main design considerations.....
[AbstractPlus](#) | Full Text: [PDF\(1208 KB\)](#) IEEE JNL

10. **Methodology for investigating the magnetization process of the storage layer in double-layered perpendicular recording media using the anomalous Hall effect**
Kumar, S.; Laughlin, D.E.;
Magnetics, IEEE Transactions on
Volume 41, Issue 3, March 2005 Page(s):1200 - 1208
Summary: The Hall effect is a useful phenomenon for evaluating the magnetization processes of the storage in double-layered perpendicular magnetic recording media. Although the Hall voltage in double-layered films has an anomalous.....
[AbstractPlus](#) | Full Text: [PDF\(552 KB\)](#) IEEE JNL

11. **Annealing effect on the structure and magnetism of Co/Pt single- and bi-crystal multilayers**
Chin-Chung Yu; Yung Liou; Yung-Ching Chu; Wei-Chun Cheng; Yeong-Der Yao;
Magnetics, IEEE Transactions on
Volume 41, Issue 2, Feb. 2005 Page(s):924 - 926
Summary: Both face-centered cubic (111) single- and bi-crystal [Co(3/spl Aring)/Pt(10/spl Aring)/sub 23/ m] multilayers were successfully fabricated on sapphire (0001) and yttria-stabilized cubic zirconia (100) substrates, respectively, by.....
[AbstractPlus](#) | Full Text: [PDF\(624 KB\)](#) IEEE JNL

12. **Micromagnetic modeling of head field rise time for high data-rate recording**
Scholtz, W.; Batra, S.;
Magnetics, IEEE Transactions on
Volume 41, Issue 2, Feb. 2005 Page(s):702 - 706
Summary: We have developed a finite-element micromagnetics model to investigate the dynamics of write head field rise time during recording at high density and high data-rates. The model includes the entire head geometry, with the large read gap and the write gap.
[AbstractPlus](#) | Full Text: [PDF\(360 KB\)](#) IEEE JNL

13. **Guilding principle for research on perpendicular magnetic recording**
Iwasaki, S.;
Magnetics, IEEE Transactions on
Volume 41, Issue 2, Feb. 2005 Page(s):683 - 686
Summary: Complementarity law between contrastive characteristics of longitudinal and perpendicular recording media. Significant dependence of recording resolution upon media parameters of recording layer (thickness /spl delt; H_c,)
[AbstractPlus](#) | Full Text: [PDF\(208 KB\)](#) IEEE JNL

14. **Chemically synthesized FePt nanoparticle material for ultrahigh-density recording**
Kodama, H.; Momose, S.; Sugimoto, T.; Uzumaki, T.; Tanaka, A.;
Magnetics, IEEE Transactions on
Volume 41, Issue 2, Feb. 2005 Page(s):665 - 669
Summary: We have examined the magnetic anisotropy of the "heat-treated FePt nanoparticles" annealed in the magnetic easy axis of the "heat-treated FePt nanoparticles" is found to be three-dimensional (3-D) random anisotropy....
[AbstractPlus](#) | Full Text: [PDF\(608 KB\)](#) IEEE JNL

15. **Magneto-resistive read sensor with perpendicular magnetic anisotropy**
Yunfei Ding; Judy, J.H.; Jian-Ping Wang;
Magnetics, IEEE Transactions on
Volume 41, Issue 2, Feb. 2005 Page(s):707 - 712
Summary: A new read sensor design is proposed in attempt to solve the magnetization distribution and thermal noise problems for nano-meter scale read sensors. In this design the free layer has a perpendicular-to-plane easy axis and the pinned layer has....
[AbstractPlus](#) | Full Text: [PDF\(472 KB\)](#) IEEE JNL

16. **Recording performance characteristics of granular perpendicular media**
Wen Jiang; Velu, E.M.T.; Malhotra, S.; Jung, H.S.; Chi Kong Kwok; Bertero, G.; Wachenschwanz, D.;
Magnetics, IEEE Transactions on
Volume 41, Issue 2, Feb. 2005 Page(s):587 - 592
Summary: The recording performance of CoCrPtO granular-type perpendicular media was examined with two perpendicular heads to demonstrate the importance of matching head and media designs in perpendicular recording.
[AbstractPlus](#) | Full Text: [PDF\(568 KB\)](#) IEEE JNL

17. **Preconditioning, write width, and recording properties of Co-Cr-Pt-O perpendicular media with various head geometries**
Abarra, E.N.; Gill, P.; Min Zheng; Zhou, J.N.; Acharya, B.R.; Choe, G.;
Magnetics, IEEE Transactions on
Volume 41, Issue 2, Feb. 2005 Page(s):581 - 586
Summary: The effect of magnetic "preconditioning" on the recording performance of perpendicular media is investigated. Furthermore, the dependence of the magnetic write width (MWW) of shielded-pole heads (SPH) on soft-underlayer thickness (t_{su})....
[AbstractPlus](#) | Full Text: [PDF\(544 KB\)](#) IEEE JNL

18. **Very high-density and low-cost perpendicular magnetic recording media including new layer-structure**
Matsunuma, S.; Koda, T.; Yano, A.; Yamanaka, H.; Shimazaki, K.; Fujita, E.; Ota, N.; Nishida, Y.; Tagawa, I.;
Magnetics, IEEE Transactions on
Volume 41, Issue 2, Feb. 2005 Page(s):572 - 576

Summary: We have fabricated a new layered structure, named "U-mag," for perpendicular magnetic recording stacked films including a very thin (2 nm) ferromagnetic (Co) intermediate layer and lattice spacing control lay medium

[AbstractPlus](#) | Full Text: [PDF\(1160 KB\)](#) IEEE JNL

19. High-potential magnetic anisotropy of CoPtCr-SiO/sub 2/ perpendicular recording media
Shimatsu, T.; Sato, H.; Oikawa, T.; Inaba, Y.; Kitakami, O.; Okamoto, S.; Aoi, H.; Muraoka, H.; Nakamura, Y.;
Magnetics, IEEE Transactions on
Volume 41, Issue 2, Feb. 2005 Page(s):566 - 571
Summary: The magnetic anisotropy of CoPtCr-SiO/sub 2/ perpendicular recording media, including higher Cr content, was studied as a function of film composition and seed layer materials. All series of CoPtCr films with various Cr contents were deposited on Ru seed.....
[AbstractPlus](#) | Full Text: [PDF\(504 KB\)](#) IEEE JNL

20. High-anisotropy nanocluster films for high-density perpendicular recording
Sellmyer, D.J.; Yan, M.; Yingfan Xu; Skomski, R.;
Magnetics, IEEE Transactions on
Volume 41, Issue 2, Feb. 2005 Page(s):560 - 565
Summary: This paper reports results on the synthesis and magnetic properties of L1/sub 0/X nanocomposite films where X=FePt, CoPt, and X=C, Ag, etc. Two fabrication methods are discussed: nonepitaxial growth of oriented perpendicular monocrystalline nanoclusters.....
[AbstractPlus](#) | Full Text: [PDF\(1024 KB\)](#) IEEE JNL

21. High-density perpendicular magnetic recording media of granular-type (FePt/MgO)/soft underlayer
Suzuki, T.; Zhengang Zhang; Singh, A.K.; Jinhua Yin; Perumal, A.; Osawa, H.;
Magnetics, IEEE Transactions on
Volume 41, Issue 2, Feb. 2005 Page(s):555 - 559
Summary: Perpendicular magnetic recording media, composed of granular-type FePt-MgO films on Fe-Ta-C soft underlayer (SUL), have been fabricated on to 2.5-in glass disks. [001] textured FePt granular films with high-granular anisotropy.....
[AbstractPlus](#) | Full Text: [PDF\(528 KB\)](#) IEEE JNL

22. Toward an understanding of grain-to-grain anisotropy field variation in thin film media
Jian-Gang Zhu; Yingguo Peng; Laughlin, D.E.;
Magnetics, IEEE Transactions on
Volume 41, Issue 2, Feb. 2005 Page(s):543 - 548
Summary: Grain-to-grain anisotropy field variation has become one of the main causes of medium noise, especially in perpendicular thin film media. In this paper, we present an electron microscopy investigation and theoretical calculation of the grain-to-grain anisotropy.....
[AbstractPlus](#) | Full Text: [PDF\(864 KB\)](#) IEEE JNL

23. Composite media for perpendicular magnetic recording
Victora, R.H.; Xiao Shen;
Magnetics, IEEE Transactions on
Volume 41, Issue 2, Feb. 2005 Page(s):537 - 542
Summary: A composite perpendicular recording media consisting of magnetically hard and soft regions within the proposed. Application of applied field initially causes the magnetization of the soft region to rotate and, thus, changes the orientation.....
[AbstractPlus](#) | Full Text: [PDF\(216 KB\)](#) IEEE JNL

24. Improvement in hard magnetic properties of FePt films by introduction of Ti underlayer
Chen, S.C.; Kuo, P.C.; Kuo, S.T.; Sun, A.C.; Chou, C.Y.; Fang, Y.H.;
Magnetics, IEEE Transactions on
Volume 41, Issue 2, Feb. 2005 Page(s):915 - 917
Summary: The FePt/Ti double layer films were prepared by dc magnetron sputtering on coming glass substrates. The Ti underlayer with 100-nm thickness was deposited at substrate temperature 200/spl deg/C, and the total thickness of the film was 3.....
[AbstractPlus](#) | Full Text: [PDF\(168 KB\)](#) IEEE JNL

25. Advanced DC-free track code pattern using diphase code for perpendicular recording
Hamaguchi, T.; Maeda, H.; Shishida, K.;
Magnetics, IEEE Transactions on
Volume 41, Issue 1, Jan. 2005 Page(s):137 - 139
Summary: We describe an advanced dc-free track code pattern that uses diphase code for a perpendicular recording system. The error rates are compared between diphase code, dummy-bit code, and conventional dabit code. The diphase code has a better ability to resist noise than the other codes.
AbstractPlus | Full Text: PDF(144 KB) IEEE JNL

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26. Origins of coercivity increase in annealed symmetric spin valves

McMichael, R.D.; Watanabe, T.; Dura, J.A.; Borchers, J.A.; Chen, P.J.; Brown, H.J.; Egelhoff, W.F., Jr.; Magnetics, IEEE Transactions on Volume 32, Issue 5, Sept. 1996 Page(s):4636 - 4638
Summary: Measurements of the effects of annealing on symmetric Co/Cu spin valves and similar structures coercivity, increased ferromagnetic resonance linewidth and reduced moment. Low angle X-ray reflectivity me that there is.....

[AbstractPlus](#) | Full Text: [PDF\(268 KB\)](#) IEEE JNL

27. Effects of Pt seed layer and Ar pressure on magnetic and structural properties of sputtered CoNi/Pt multilayers

Meng, Q.; de Haan, P.; van Drent, W.P.; Lodder, J.C.; Popma, T.J.A.; Magnetics, IEEE Transactions on Volume 32, Issue 5, Sept. 1996 Page(s):4064 - 4066
Summary: CoNi/Pt multilayers were prepared by magnetron sputtering using Ar gas. The effects of the Pt seed layer thickness and Ar pressure on magnetic and structural properties are investigated. Microstructures of the multilayers are studied by XRD.....

[AbstractPlus](#) | Full Text: [PDF\(420 KB\)](#) IEEE JNL

28. High density magnetic recording on highly oriented CoCr-alloy perpendicular rigid disk media

Fontamot, M.; Honda, Y.; Hirayama, Y.; Itoh, K.; Ide, H.; Maruyama, Y.; Magnetics, IEEE Transactions on Volume 32, Issue 5, Sept. 1996 Page(s):3789 - 3794
Summary: High density magnetic recording is investigated for a combination of single-layered perpendicular media. Medium magnetic properties (H_c and M_r/M_s) are improved by introducing a dual underlayer structure. Experiments show.....

[AbstractPlus](#) | Full Text: [PDF\(1520 KB\)](#) IEEE JNL

29. Interactions and reversal processes in CoCrTa/CoCrTaPt thin films

Morales, M.P.; O'Grady, K.; Zhang, B.; Bennett, W.R.; Rauch, G.C.; Magnetics, IEEE Transactions on Volume 32, Issue 5, Sept. 1996 Page(s):3593 - 3595
Summary: Switching behaviour and intergranular interactions have been studied in CoCrTa/CoCrTaPt double film head.....

[AbstractPlus](#) | Full Text: [PDF\(264 KB\)](#) IEEE JNL

30. Dependence of perpendicular coercivity on residual stress of Ba ferrite/ZnO bilayered films deposited on textured substrates

Noma, K.; Matsushita, N.; Nakagawa, S.; Naoe, M.;
Magnetics, IEEE Transactions on
Volume 32, Issue 5, Sept. 1996 Page(s):3822 - 3824
Summary: Ba ferrite films composed of perfectly c-axis oriented crystallites, perpendicular to film plane, were quartz sheets with ZnO underlayer at substrate temperature of 150°C. It was found that the creation of microc
[AbstractPlus](#) | Full Text: [PDF\(348 KB\)](#) IEEE JNL

- 31. Effect of perpendicular layer thickness on read/write characteristics of perpendicular/longitudinal con ring-type head
Kurokawa, Y.; Nagasaki, A.; Homma, T.; Osaka, T.;
Magnetics, IEEE Transactions on
Volume 32, Issue 5, Sept. 1996 Page(s):3810 - 3812
Summary: The effects of perpendicular layer thickness on remanent magnetization states and recording char perpendicular-longitudinal composite media were investigated. The contribution of perpendicular magnetic re a change....
[AbstractPlus](#) | Full Text: [PDF\(268 KB\)](#) IEEE JNL
- 32. Perpendicular anisotropy in Co-Eu-EuS and Co-Eu-Tb-EuS exchange coupled sputtered films
Lien-Chang Wang; Gambino, R.J.;
Magnetics, IEEE Transactions on
Volume 32, Issue 5, Sept. 1996 Page(s):4076 - 4077
Summary: In an effort to achieve a high data storage density media, Co-Eu-EuS and Co-Eu-Tb-EuS thin film RF sputtering. These samples show strong perpendicular anisotropy and high coercivity fields which are requ storage de.....
[AbstractPlus](#) | Full Text: [PDF\(188 KB\)](#) IEEE JNL
- 33. Extremely high linear density recording by perpendicular magnetization
Honda, N.; Ouchi, K.; Iwasaki, S.;
Magnetics, IEEE Transactions on
Volume 32, Issue 5, Sept. 1996 Page(s):3804 - 3806
Summary: High output and high linear density recording of 300 kFRPI was obtained utilizing composite perp on Co-Cr system alloy. It was found that the medium thickness exhibited a significant effect on the output. Hi lower
[AbstractPlus](#) | Full Text: [PDF\(392 KB\)](#) IEEE JNL
- 34. High-coercivity CoPt alloy films grown by sputtering
Hu, J.-P.; Lin, P.;
Magnetics, IEEE Transactions on
Volume 32, Issue 5, Sept. 1996 Page(s):4096 - 4098
Summary: Co_xPt_{1-x} alloy films ($x=0.2\sim0.4$) were prepared by rf sputtering at substrate temperatures 150~30 underlayer and post annealing. The magnetic properties of the films showed strong dependence on the comp
[AbstractPlus](#) | Full Text: [PDF\(184 KB\)](#) IEEE JNL
- 35. Read/write characteristics of Co-Zn ferrite rigid disks in contact mode recording
Matsushita, N.; Morisako, A.; Nakagawa, S.; Naoe, M.;
Magnetics, IEEE Transactions on
Volume 32, Issue 5, Sept. 1996 Page(s):3578 - 3580
Summary: Co-Zn ferrite films were deposited at substrate temperature T_s from 90 to 500°C by using facing t Specimen films deposited at T_s of 200°C and below were composed of crystallites with excellent (111) ori....
[AbstractPlus](#) | Full Text: [PDF\(296 KB\)](#) IEEE JNL
- 36. Gbit/in² perpendicular recording using double layer medium and MIG head
Iwasaki, S.; Ouchi, K.; Honda, N.;
Magnetics, IEEE Transactions on
Volume 32, Issue 5, Sept. 1996 Page(s):3795 - 3800
Summary: Perpendicular recording has been studied using ring heads for read and write. It was confirmed th density of 1 Gbit/in² could be achieved by using a MIG type ring head for recording and a narrow gap ring he
[AbstractPlus](#) | Full Text: [PDF\(692 KB\)](#) IEEE JNL

37. **Perpendicular Co-Cr magnetic recording media prepared by sputtering using ECR microwave plasma**
Yamamoto, S.; Sato, K.; Kurisu, H.; Matsuura, M.; Hiroto, S.; Maeda, Y.;
Magnetics, IEEE Transactions on
Volume 32, Issue 5, Sept. 1996 Page(s):3825 - 3827
Summary: Perpendicular Co-Cr media were deposited on polyimide substrates by sputtering using an electron resonance microwave plasma in an Ar sputtering gas pressure ranging from 3×10^{-2} to 8×10^{-2} Pa at a target bias voltage of 300 V. The microstructure of the film was observed by TEM and the magnetic properties were measured by VSM. The coercivity of the film was found to increase with increasing oxygen pressure.
[AbstractPlus](#) | Full Text: [PDF\(284 KB\)](#) IEEE JNL

38. **Challenges in the practical implementation of perpendicular magnetic recording**
Cain, W.; Payne, A.; Baldwinson, M.; Hempstead, R.;
Magnetics, IEEE Transactions on
Volume 32, Issue 1, Jan. 1996 Page(s):97 - 102
Summary: The storing of recorded bits in a perpendicular orientation holds great promise for high linear densities. However, the most common embodiment of perpendicular recording (the probe head/double layer media) has several challenges.....
[AbstractPlus](#) | Full Text: [PDF\(640 KB\)](#) IEEE JNL

39. **Magneto-optical properties of Sr-ferrite films produced by pulsed laser ablation**
Papakonstantinou, P.; Atkinson, R.; O'Neill, M.; Salter, I.W.; Gerber, R.;
Magnetics, IEEE Transactions on
Volume 31, Issue 6, Nov. 1995 Page(s):3283 - 3285
Summary: The effect of substrate temperature and oxygen pressure on the microstructure and magneto-optical properties of Sr-ferrite films grown on (001) single crystal sapphire substrates by pulsed laser deposition has been investigated....
[AbstractPlus](#) | Full Text: [PDF\(408 KB\)](#) IEEE JNL

40. **Annealing effects of Co/Ni multilayers**
Zhang, Y.B.; Woollam, J.A.;
Magnetics, IEEE Transactions on
Volume 31, Issue 6, Nov. 1995 Page(s):3262 - 3264
Summary: Several series of sputtered Co(0.2 nm)/Ni (0.8 nm) multilayered films have been annealed up to 400 °C. The annealed samples maintain a perpendicular easy direction and have large magnetic coercivity values. For on the other hand.....
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41. **Thermomagnetically written domains in compositionally modulated DyFeCo thin films**
Carey, R.; Newman, D.M.; Snelling, J.P.; Thomas, B.W.J.;
Magnetics, IEEE Transactions on
Volume 31, Issue 6, Nov. 1995 Page(s):3259 - 3261
Summary: Magnetic properties of critical importance to the thermo-magnetic recording process are shown to be dependent on the size of the domains. The use of structure as an additional tool in the control of these properties is illustrated by experiments on the size.....
[AbstractPlus](#) | Full Text: [PDF\(372 KB\)](#) IEEE JNL

42. **The effect of Pd layer thickness on the magnetic and magneto-optical properties of Pd/(Pt/Co/Pt) modulated multilayer films**
Ying Xiao; Jun-Hao Xu; Wittborn, J.; Makino, Y.; Rao, K.V.; Zuo-Yi Lee;
Magnetics, IEEE Transactions on
Volume 31, Issue 6, Nov. 1995 Page(s):3343 - 3345
Summary: A series of Pd- $t_{\text{Pd}}/\text{Pt-2 \AA/Co-3 \AA/Pt-2 \AA}$ modulated multilayer films with Pd layer thickness t_{Pd} ranging from 0 to 10 nm have been deposited on oxidized Si substrates. SQUID magnetic and Kerr hysteresis measurements show that the magnetic properties are dependent on the Pd layer thickness. The coercivity increases with increasing Pd layer thickness.
[AbstractPlus](#) | Full Text: [PDF\(376 KB\)](#) IEEE JNL

43. **Kerr rotations and anisotropy in (Pt/Co/Pt)/X multilayers**
Bertero, G.A.; Sinclair, R.;
Magnetics, IEEE Transactions on
Volume 31, Issue 6, Nov. 1995 Page(s):3337 - 3342
Summary: The link between interface sharpness and perpendicular magnetic anisotropy (K_{\perp}) in Pt/Co multilayers has been exploited to yield enhanced magnetic anisotropy in related multilayer structures. These new multilayers consist of alternating layers of Pt, Co, and Pt with a thickness of approximately 10 nm each. The interface between the Pt and Co layers is very sharp, which results in a high perpendicular magnetic anisotropy. The Kerr rotation angle and magnetic coercivity are measured for these multilayers and compared with theoretical calculations.
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44. Magnetic and magneto-optical properties of $Mn_xCuBi(x=0.75-3.5)$ films
Jian Chen; Wierman, K.; Kirby, R.D.; Sellmyer, D.J.;
Magnetics, IEEE Transactions on
Volume 31, Issue 6, Nov. 1995 Page(s):3334 - 3336
Summary: Magnetic and magneto-optical properties of $Mn_xCuBi(x=0.75-3.5)$ thin films are presented. With ir concentration x , the perpendicular anisotropy constant (K_u), the remanence squareness ($S=M_r/M_s$) an.....
[AbstractPlus](#) | Full Text: [PDF\(228 KB\)](#) IEEE JNL

45. Control of orientation and crystallite size of barium ferrite thin films In sputter deposition
Hoshi, Y.; Kubota, Y.; Naoe, M.;
Magnetics, IEEE Transactions on
Volume 31, Issue 6, Nov. 1995 Page(s):2782 - 2784
Summary: Hexagonal barium ferrite thin films were deposited in a facing target sputtering system. Films with and c-axis orientation were obtained by depositing the films on a thermally oxidized silicon wafer and on a c-e un.....
[AbstractPlus](#) | Full Text: [PDF\(408 KB\)](#) IEEE JNL

46. High coercivity in Co-Cr films induced by nitrogen gas addition during room temperature sputter-dep.
Hoada, N.; Chiba, T.; Ouchi, K.; Iwasaki, S.;
Magnetics, IEEE Transactions on
Volume 31, Issue 6, Nov. 1995 Page(s):2758 - 2760
Summary: Nitrogen gas addition was investigated for deposition of Co-Cr films at room temperature. It was f addition has a remarkable effect on increasing perpendicular coercivity H_c for films deposited at high Ar pres
[AbstractPlus](#) | Full Text: [PDF\(456 KB\)](#) IEEE JNL

47. Magnetic and read/write performance of CoCrTaPt perpendicular media
Nagaoka, T.; Baldwin, C.; Payne, A.P.;
Magnetics, IEEE Transactions on
Volume 31, Issue 6, Nov. 1995 Page(s):2755 - 2757
Summary: Third element additions have been effectively employed in CoCrX alloys for longitudinal recording improving magnetic performance. In this work, we report on similar modifications to Perpendicular (\perp) magnet Specifi.....
[AbstractPlus](#) | Full Text: [PDF\(268 KB\)](#) IEEE JNL

48. Modeling of various magnetoresistive head designs for contact recording
Cain, W.C.;
Magnetics, IEEE Transactions on
Volume 31, Issue 6, Nov. 1995 Page(s):2645 - 2647
Summary: As areal density increases demand magnetoresistive (MR) sensors and contact limited spacing, r will be needed for system robustness. In this study, two dimensional reciprocity modeling is used to evaluate performance of.....
[AbstractPlus](#) | Full Text: [PDF\(264 KB\)](#) IEEE JNL

49. An analysis on multi-track submicron-width recording In perpendicular magnetic recording
Shimizu, Y.; Tagawa, I.; Muraoka, H.; Nakamura, Y.;
Magnetics, IEEE Transactions on
Volume 31, Issue 6, Nov. 1995 Page(s):3096 - 3098
Summary: A three-dimensional simulation program for analysis on high areal density magnetic recording is d magneto-static interaction between a head and a medium is taken into account with a reasonable medium m phenomena in.....
[AbstractPlus](#) | Full Text: [PDF\(416 KB\)](#) IEEE JNL

50. Tribological properties of barium ferrite films
Scherge, M.; Sui, X.; Ma, X.; Bauer, C.L.; Jhon, M.S.; Kryder, M.H.;
Magnetics, IEEE Transactions on
Volume 31, Issue 6, Nov. 1995 Page(s):2928 - 2930
Summary: Acoustic emission and friction coefficients have been measured during start-stop and continuous doped barium ferrite films, without lubrication, and compared with concomitant surface topography and magn

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IEEE CNF IEEE Conference Proceeding

51. Domain walls interactions with attractive and repulsive defects in the garnet films

Karpasyuk, V.K.; Bulatov, M.F.;

Magnetics, IEEE Transactions on

Volume 30, Issue 6, Nov 1994 Page(s):4344 - 4346

Summary: This paper describes methods permitting the determination of the magnetic dipole moments of very thin films with a perpendicular anisotropy. The methods are based on the study of solitary defect interactions and....

[AbstractPlus](#) | Full Text: [PDF\(208 KB\)](#) IEEE JNL

52. Anisotropy and magneto-optical properties of sputtered Co/Ni multilayer thin films

Zhang, Y.B.; Woollam, J.A.; Shan, Z.S.; Shen, J.X.; Sellmyer, D.J.;

Magnetics, IEEE Transactions on

Volume 30, Issue 6, Nov 1994 Page(s):4440 - 4442

Summary: Several series of sputtered Co/Ni multilayer thin films have been investigated. The volume and intensity of the magnetic anisotropy were determined from magnetization measurements, and the interface anisotropy, K

[AbstractPlus](#) | Full Text: [PDF\(232 KB\)](#) IEEE JNL

53. A perpendicular contact recording head with high moment laminated FeAlN/NiFe pole tips

Wang, S.; Louis, E.; Wolfson, J.; Anderson, R.; Kryder, M.H.;

Magnetics, IEEE Transactions on

Volume 30, Issue 6, Nov 1994 Page(s):3897 - 3899

Summary: Perpendicular recording probe heads using high moment FeAlN/NiFe laminated magnetic materials were fabricated and tested. FeAlN/NiFe films with a saturation magnetization of 18 kG, a coercivity of 1.0 Oe, and a remanence of 1.0 Oe, were....

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54. Oxygen effect on the microstructure and magnetic properties of binary CoPt thin films for perpendicular recording media

Hikosaka, T.; Komai, T.; Tanaka, Y.;

Magnetics, IEEE Transactions on

Volume 30, Issue 6, Nov 1994 Page(s):4026 - 4028

Summary: This paper presents the effect of oxygen on the microstructure of Co-18 at.% Pt perpendicular recording media. The CoPt films during high Ar pressure (4 Pa) sputtering successfully increased the perpendicular coercivity and the oxygen concentration in the film.....

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55. High coercivity in Co-Cr films for perpendicular recording prepared by low temperature sputter-deposition

Honda, N.; Ariake, J.; Ouchi, K.; Iwasaki, S.;

Magnetics, IEEE Transactions on

Volume 30, Issue 6, Nov 1994 Page(s):4023 - 4025

Summary: H_c over 1000 Oe has been achieved for Co-Cr films deposited at room temperature and at an ex pressure onto a Ti undertayer. Conditions for further high H_c were studied. After optimization of the Ti und....

[AbstractPlus](#) | Full Text: [PDF\(288 KB\)](#) IEEE JNL

56. Soft magnetic and crystallographic properties of $Ni_{81}Fe_{18}/Co_{67}Cr_{33}$ multilayers as backlayers in perp media

Nakagawa, S.; Ichihara, T.; Naoe, M.;

Magnetics, IEEE Transactions on

Volume 30, Issue 6, Nov 1994 Page(s):4020 - 4022

Summary: Multilayers composed of $Ni_{81}Fe_{18}$ and paramagnetic $Co_{67}Cr_{33}$ interlayers were prepared by facin backlayers for perpendicular magnetic recording media. This multilayered film must satisf....

[AbstractPlus](#) | Full Text: [PDF\(244 KB\)](#) IEEE JNL

57. Pd/Co multilayers for perpendicular magnetic recording

Lairson, B.M.; Perez, J.; Baldwin, C.;

Magnetics, IEEE Transactions on

Volume 30, Issue 6, Nov 1994 Page(s):4014 - 4016

Summary: We have demonstrated that Pd/Co metal multilayers have superior perpendicular magnetic record compared with conventional CoCr perpendicular alloy media. Using a perpendicular contact probe transducer exhibit more t.....

[AbstractPlus](#) | Full Text: [PDF\(240 KB\)](#) IEEE JNL

58. Microstructure and magnetic properties of anisotropic NdFeB powders from hot rolled ingots by HD p

Hinz, D.; Handstein, A.; Harris, I.R.;

Magnetics, IEEE Transactions on

Volume 30, Issue 2, Mar 1994 Page(s):601 - 603

Summary: Hot rolling of cast $Nd_{18.5}Fe_{77.5}B_6$ ingots wrapped in iron was used to produce anisotropic magnet for anisotropic powder. After application of the HD process the NdFeB powder could be easily remov.....

[AbstractPlus](#) | Full Text: [PDF\(396 KB\)](#) IEEE JNL

59. Chip organization of Bloch line memory with thermomagnetically written domain patterns

Asada, H.; Matsuyama, K.; Gamachi, M.; Miyoshi, H.; Taniguchi, K.;

Magnetics, IEEE Transactions on

Volume 29, Issue 6, Nov 1993 Page(s):2572 - 2574

Summary: A stripe domain stabilization method for Bloch line memory is proposed to simplify the stripe initia facilitate the chip fabrication process. In this method, stripe domains are stabilized by stray magnetic fields fr...

[AbstractPlus](#) | Full Text: [PDF\(296 KB\)](#) IEEE JNL

60. A numerical investigation of domain wall overshoot in thin films with perpendicular anisotropy

Patterson, G.N.; Humphrey, F.B.;

Magnetics, IEEE Transactions on

Volume 29, Issue 6, Nov 1993 Page(s):2581 - 2583

Summary: The dynamic structure of a magnetic domain wall in a stripe compression experiment is investigat investigation of the Landau-Lifshitz-Gilbert equation. Domain walls of the type found in thin films with a large i...perpe.....

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61. Domain analysis in epitaxial iron-aluminum and iron-gold sandwiches with oscillatory exchange

McCord, J.; Hubert, A.; Schafer, R.; Fuss, A.; Grunberg, P.;

Magnetics, IEEE Transactions on

Volume 29, Issue 6, Nov 1993 Page(s):2735 - 2737

Summary: Epitaxially grown iron-iron sandwiches with wedge-shaped gold and aluminum interlayers are inv... microscopy. While in the Fe-Au-Fe sample an oscillatory exchange (which appears, however, of a rather wea... interact.....

[AbstractPlus](#) | Full Text: [PDF\(544 KB\)](#) IEEE JNL

62. Magnetic anisotropy in arc-cast Nd-Fe-B-Zr alloys

Fujita, A.; Harris, I.R.;

Magnetics, IEEE Transactions on
Volume 29, Issue 6, Nov 1993 Page(s):2803 - 2805
Summary: Magnetically anisotropic ingots with composition of $(Nd_{2.2}Fe_{14}B)_{100-x}Zr_x$ are prepared using an
The direction perpendicular to the cooling surface is found to be magnetically hard comp.....
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63. Structural and magnetic characteristics of $BaFe_{12}O_{19}/ZnO$ multilayers by arc discharge evaporation
Naoe, M.; Nakagawa, S.;
Magnetics, IEEE Transactions on
Volume 29, Issue 6, Nov 1993 Page(s):3096 - 3098
Summary: The vacuum-arc evaporation method is applied to prepare $BaFe_{12}O_{19}/ZnO$ multilayers with sharp
The film consists of 25 bilayers composed of 120 Å $BaFe_{12}O_{19}$ and 12 Å ZnO layers.....
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64. As-melt-spun anisotropy of Nd-Fe-B-M flakes (M=Cr or Mo/W/Mn/Co/Ni)
Chin, T.-S.; Huang, S.-H.; Yau, J.-M.;
Magnetics, IEEE Transactions on
Volume 29, Issue 6, Nov 1993 Page(s):2791 - 2793
Summary: As-melt-spun anisotropy of Nd-Fe-B-M (M is 0.5 to 3 at.% Cr or Mo/W/Mn/Co/Ni) flakes is studied
addition of Mo or Mn, Co results in much higher remanence and maximum energy product measured normal
than th.....
[AbstractPlus](#) | Full Text: [PDF\(272 KB\)](#) IEEE JNL

65. An analysis of a shielded magnetic pole for perpendicular recording
Wilton, D.T.; Mapps, D.J.;
Magnetics, IEEE Transactions on
Volume 29, Issue 6, Nov 1993 Page(s):4182 - 4193
Summary: The new solution of an idealized mathematical model of the field due to a symmetrically shielded
for perpendicular recording is presented. Accurate Fourier coefficients and corresponding magnetic fields are
repre.....
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66. Preparation and magnetic properties of strontium ferrite thin films
Ramamurthy Acharya, B.; Venkatramani, N.; Prasad, S.; Shringi, S.N.; Krishnan, R.; Tessier, M.; Dumond, Y.
Magnetics, IEEE Transactions on
Volume 29, Issue 6, Nov 1993 Page(s):3370 - 3372
Summary: Strontium ferrite films were deposited by RF sputtering of a commercial strontium ferrite target on
substrates maintained at temperatures up to 900°C. Films deposited at T<800°C were amorphous, but films c
[AbstractPlus](#) | Full Text: [PDF\(188 KB\)](#) IEEE JNL

67. Microstructural origin of the perpendicular anisotropy In M-type barium hexaferrite thin films deposited by sputtering
Sui, X.; Kryder, M.H.; Wong, B.Y.; Laughlin, D.E.;
Magnetics, IEEE Transactions on
Volume 29, Issue 6, Nov 1993 Page(s):3751 - 3753
Summary: Barium hexaferrite thin films deposited by RF magnetron sputtering have exhibited saturation mag
of bulk single crystals, whereas the perpendicular uniaxial anisotropy is only 60% of that of the bulk. X-ray dif
[AbstractPlus](#) | Full Text: [PDF\(316 KB\)](#) IEEE JNL

68. The influence of demagnetization on the magnetic after-effect of Co-Cr micro structures
te Linteloo, H.; Streeksstra, W.; Lodder, C.; Popma, T.;
Magnetics, IEEE Transactions on
Volume 29, Issue 6, Nov 1993 Page(s):3748 - 3750
Summary: The influence of the demagnetization field on the magnetic after-effect of Co-Cr media is discuss
field of as-sputtered Co-Cr was changed into block-shaped micro structures by lithographic processes. This p
the

[AbstractPlus](#) | Full Text: [PDF\(236 KB\)](#) IEEE JNL

69. Narrow track recording in perpendicular thin film media

Zhu, J.-G.; Ye, X.-G.;
Magnetics, IEEE Transactions on
Volume 29, Issue 6, Nov 1993 Page(s):3736 - 3738
Summary: Narrow track recording in a double-layer perpendicular film medium is studied via micromagnetic simulation. A head field with a track width W=1.5 μ m is used for recording simulations. Recordings of multiple consecutive tracks are simulated.
[AbstractPlus](#) | Full Text: [PDF\(344 KB\)](#) IEEE JNL

70. Magnetic properties and structures of CoCrTa films for wide range of Cr variation
Hwang, C.H.; Park, Y.S.; Jang, P.W.; Lee, T.D.;
Magnetics, IEEE Transactions on
Volume 29, Issue 6, Nov 1993 Page(s):3733 - 3735
Summary: The authors studied the effects of Ta addition on magnetic properties of CoCrTa films for a wider range of Cr concentration. They tried to elucidate how Ta addition increases the coercivity. Ta addition is effective in increasing perpendicular magnetic anisotropy.
[AbstractPlus](#) | Full Text: [PDF\(240 KB\)](#) IEEE JNL

71. Magnetic and magneto-optical properties of Fe_xCo_{1-x}/Pd multilayer thin films
Shin, S.-C.;
Magnetics, IEEE Transactions on
Volume 28, Issue 5, Sep 1992 Page(s):2766 - 2768
Summary: The author reports the dependence of the magnetization, anisotropy constant, and Kerr rotation on the Fe concentration x in Fe_xCo_{1-x}/Pd multilayer thin films, where the Fe concentration x varies between 0 and 100% with increments of 10%.
[AbstractPlus](#) | Full Text: [PDF\(240 KB\)](#) IEEE JNL

72. Perpendicular magnetic anisotropy and coercivity of Co/Ni multilayers
den Broeder, F.J.A.; Janssen, E.; Hoving, W.; Zeper, W.B.;
Magnetics, IEEE Transactions on
Volume 28, Issue 5, Sep 1992 Page(s):2760 - 2765
Summary: The anisotropy of vapor-deposited Co/Ni multilayers has been studied as a function of Co and Ni thicknesses. Following a recent theoretical prediction, a strong perpendicular anisotropy was found for a [111] Co_1/Ni_2 multilayer.
[AbstractPlus](#) | Full Text: [PDF\(468 KB\)](#) IEEE JNL

73. Coercivity mechanism and microstructure of (Co/Pt) multilayers
Suzuki, T.; Notarys, H.; Dobbertin, D.C.; Lin, C.-J.; Weller, D.; Miller, D.C.; Gorman, G.;
Magnetics, IEEE Transactions on
Volume 28, Issue 5, Sep 1992 Page(s):2754 - 2759
Summary: The coercivity mechanism of (Co/Pt) multilayers with high H_c and high squareness fabricated by sputtering is studied. The coercivity mechanism is due to the wall pinning rather than the nucleation process. In order to estimate the size of a wall-pinning site, the microstructure of the multilayer is observed by TEM.
[AbstractPlus](#) | Full Text: [PDF\(624 KB\)](#) IEEE JNL

74. Magnetic properties of multilayered GdDyFeCo thin films
Torazawa, K.; Tanase, K.; Sumi, S.; Uchihara, Y.;
Magnetics, IEEE Transactions on
Volume 28, Issue 5, Sep 1992 Page(s):2521 - 2523
Summary: The variation in the magnetic properties of compositionally modulated GdDyFeCo films prepared by magnetron sputtering as a function of the compositional period was investigated. The compositional period was varied from 1 to 10 nm with respect to the substrate.....
[AbstractPlus](#) | Full Text: [PDF\(224 KB\)](#) IEEE JNL

75. Magnetic properties of a novel iron carbide film, Fe_7C_3 , formed in a glow discharge
Pringle, O.A.; Long, G.J.; Li, J.L.; James, W.J.; Grandjean, F.; Hadjipanayis, G.C.;
Magnetics, IEEE Transactions on
Volume 28, Issue 5, Sep 1992 Page(s):2862 - 2864
Summary: Fe_7C_3 thin films have been deposited on glass substrates in a radio-frequency glow discharge. At temperatures of about 570 K, these films are crystalline, and exhibit columnar film growth perpendicular to the substrate.....
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76. Micromagnetic study of magnetization process in bicrystal thin film

Ye, X.-G.; Zhu, J.-G.;
Magnetics, IEEE Transactions on
Volume 28, Issue 5, Sep 1992 Page(s):3087 - 3089

Summary: A computer simulation study of the magnetization process in bicrystal thin films is presented. Nea obtained in these films with field applied along the diagonal directions between the two crystalline easy axes,

[AbstractPlus](#) | Full Text: [PDF\(596 KB\)](#) IEEE JNL

77. Perpendicular magnetic anisotropy in FeCo/Pt multilayer films

Iwata, S.; Parkin, S.S.P.; Suzuki, T.; Weller, D.;
Magnetics, IEEE Transactions on
Volume 28, Issue 5, Sep 1992 Page(s):3231 - 3233

Summary: A systematic study of the magnetic and magnetooptical properties of FeCo/Pt multilayer films has FeCo/Pt multilayer exhibits a large intrinsic perpendicular anisotropy which has nearly the same value as that fi....

[AbstractPlus](#) | Full Text: [PDF\(192 KB\)](#) IEEE JNL

78. Spin reorientation in $Tm_{2.14}Bi_{0.80}Pb_{0.08}Fe_{3.1}Ga_{1.9}O_{12}$ thin films

Bornfreund, R.E.; Khan, D.C.; Wigen, P.E.; Pardavi-Horvath, M.; Ings, J.; Belt, R.;
Magnetics, IEEE Transactions on
Volume 28, Issue 5, Sep 1992 Page(s):2991 - 2993

Summary: A single-crystal garnet thin film has been found to undergo a continuous reorientation of its easy c magnetization from in-plane to perpendicular to the plane over a temperature range of 100 K to 125 K. The te determined.....

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79. Large Kerr rotation angle and magnetic characteristics of Co-Cr/Al multilayers prepared by plasma-free

Hirata, T.; Naoe, M.;
Magnetics, IEEE Transactions on
Volume 28, Issue 5, Sep 1992 Page(s):2964 - 2966

Summary: Multilayers of 50 ~ 1500 Å Co-Cr/7 Å Al for perpendicular magnetic (PM) and magnetooptical (MO) were prepared by the facing targets sputtering (FTS) method. It has been confirmed that the FTS apparatus c

[AbstractPlus](#) | Full Text: [PDF\(216 KB\)](#) IEEE JNL

80. Simple model of the high frequency permeability of narrow thin-film structures with eddy currents, with application to magnetic recording media

Webb, B.C.; Re, M.E.; Jahnes, C.V.; Russak, M.A.;
Magnetics, IEEE Transactions on
Volume 28, Issue 5, Sep 1992 Page(s):2955 - 2957

Summary: The authors report the derivation and experimental verification of a simple model of the high-frequency narrow soft-magnetic thin-film structures which includes eddy currents and magnetization rotation, wall motion, and Dzyaloshinskii-Moriya interaction. The model is applied to the case of a rectangular film with a width of 100 nm and a thickness of 10 nm.

[AbstractPlus](#) | Full Text: [PDF\(272 KB\)](#) IEEE JNL

81. Magnetization of Sm-Fe-N thin films with in-plane anisotropy

Wang, D.; Hadjipanayis, G.C.; Sellmyer, D.J.;

Magnetics, IEEE Transactions on

Volume 28, Issue 5, Sep 1992 Page(s):2590 - 2592

Summary: Sm-Fe-N films have been made by DC magnetron sputtering and heating in-situ in a nitrogen atmosphere. It is observed that the anisotropy changes from perpendicular to in-plane by nitrogenation. The Curie temperature and magnetic properties of the films are also discussed.

[AbstractPlus](#) | Full Text: [PDF\(232 KB\)](#) IEEE JNL

82. Orientation and angular dependence of magnetic properties for Ba-ferrite tapes

Suzuki, T.;

Magnetics, IEEE Transactions on

Volume 28, Issue 5, Sep 1992 Page(s):2388 - 2390

Summary: It is shown that Ba-ferrite tapes have a different angle dependence for H_c and squareness ratio than other ferrites. Large perpendicular-to-longitudinal ratios for H_c and squareness, and small switching fields are observed.

[AbstractPlus](#) | Full Text: [PDF\(324 KB\)](#) IEEE JNL

83. Interaction effects in film media with varying out-of-plane orientation

Alex, M.; Yogi, T.; Sanders, I.L.; O'Grady, K.;

Magnetics, IEEE Transactions on

Volume 28, Issue 5, Sep 1992 Page(s):3264 - 3266

Summary: Interactions and switching characteristics of thin-film recording media with varying degrees of out-of-plane orientation have been measured and correlated to media noise. Unlike conventional magnetic measurements that can resolve the orientation of the media, the interactions are measured.

[AbstractPlus](#) | Full Text: [PDF\(252 KB\)](#) IEEE JNL

84. Thickness dependent coercivity in sputtered Co/Pt multilayers

Weller, D.; Notarys, H.; Suzuki, T.; Gorman, G.; Logan, T.; McFadyen, I.; Chien, C.J.;

Magnetics, IEEE Transactions on

Volume 28, Issue 5, Sep 1992 Page(s):2500 - 2502

Summary: Sputtered Co/Pt multilayers grown on etched SiN_x buffers exhibit large perpendicular magnetic anisotropy and striking thickness dependence of the perpendicular coercivity. H_c decreases as a series of N_x .

[AbstractPlus](#) | Full Text: [PDF\(320 KB\)](#) IEEE JNL

85. In-plane magnetic anisotropies in polycrystalline Ni films induced by Xe bombardment during growth

Farle, M.; Saffari, H.; Lewis, W.A.; Kay, E.; Hagstrom, S.B.;

Magnetics, IEEE Transactions on

Volume 28, Issue 5, Sep 1992 Page(s):2940 - 2942

Summary: 250 to 1500 Å thin Ni films were ion beam sputtered onto a fused quartz substrate with simultaneous bombardment by Xe ions of 100 eV. Hysteresis loops were recorded ex situ by the longitudinal magneto-optic Kerr effect. A magnetic anisotropy was observed.

[AbstractPlus](#) | Full Text: [PDF\(248 KB\)](#) IEEE JNL

86. Effect of substrate temperature on magnetic and microstructural properties of sputtered Co-Cr films vs. magnetic anisotropy

Uchiyama, Y.; Sato, H.; Kitamoto, Y.;

Magnetics, IEEE Transactions on

Volume 28, Issue 5, Sep 1992 Page(s):2010 - 2017

Summary: Co-22 at.%Cr films with perpendicular magnetic anisotropy have been sputter-deposited onto glass substrates at various substrate temperatures from room temperature to 230°C. A systematic X-ray analysis has shown that the magnetic anisotropy increases with increasing substrate temperature.

[AbstractPlus](#) | Full Text: [PDF\(1004 KB\)](#) IEEE JNL

87. Domain wall dynamics in TbFeCo thin films

Gadetsky, S.N.; Stupnov, A.V.; Zumkin, M.V.; Nikolaev, E.N.;
Magnetics, IEEE Transactions on
Volume 28, Issue 5, Sep 1992 Page(s):2928 - 2930
Summary: The pulse magnetization method was used to study DW (domain wall) dynamics in $Tb_x(Fe_{85}Co_{15})$ with Tb content of 18-28 at.%. The films have perpendicular magnetic anisotropy. The charact.....
[AbstractPlus](#) | Full Text: [PDF\(256 KB\)](#) IEEE JNL

88. Domains and domain nucleation in magnetron-sputtered CoCr thin films
Demczyk, B.G.;
Magnetics, IEEE Transactions on
Volume 28, Issue 2, Mar 1992 Page(s):998 - 1002
Summary: The magnetic domain configurations in magnetron-sputtered CoCr thin films have been examined transmission electron microscopy. The thinnest (10 nm) films display in-plane 180° domain walls, while thicker out-of-pl....
[AbstractPlus](#) | Full Text: [PDF\(1176 KB\)](#) IEEE JNL

89. Magnetometry and recording on very high coercivity cobalt alloy disk media
Coughlin, T.; Viswanathan, N.; Speliotis, D.;
Magnetics, IEEE Transactions on
Volume 27, Issue 6, Nov 1991 Page(s):5034 - 5036
Summary: The hysteretic and remanent properties, the in-plane and out-of-plane anisotropy, and the high-de characteristics of very high coercivity (1450 Oe nominal) state-of-the-art commercial 95-mm thin-film disks fro sources we.....
[AbstractPlus](#) | Full Text: [PDF\(212 KB\)](#) IEEE JNL

90. High areal bit density perpendicular magnetic recording on hard disk
Yamamoto, S.; Muraoka, H.; Nakamura, Y.;
Magnetics, IEEE Transactions on
Volume 27, Issue 6, Nov 1991 Page(s):5292 - 5294
Summary: The feasibility of high-areal-density perpendicular magnetic recording was investigated in a hard c contact-type single-pole head and a Co-Cr/Ni-Fe medium. The overall spacing loss in recording and reproduc found t.....
[AbstractPlus](#) | Full Text: [PDF\(316 KB\)](#) IEEE JNL

91. Small magnetic patterns written with a scanning tunneling microscope
Watanuki, O.; Sonobe, Y.; Tsuji, S.; Sai, F.;
Magnetics, IEEE Transactions on
Volume 27, Issue 6, Nov 1991 Page(s):5289 - 5291
Summary: The authors present a technique for writing submicron magnetic bit patterns on double-layered pe media by using a scanning tunneling microscope (STM) with an amorphous magnetic tip and observing them microsc....
[AbstractPlus](#) | Full Text: [PDF\(220 KB\)](#) IEEE JNL

92. Relationships between high density recording performance and particle coercivity distribution
Tagawa, I.; Nakamura, Y.;
Magnetics, IEEE Transactions on
Volume 27, Issue 6, Nov 1991 Page(s):4975 - 4977
Summary: Most magnetic recording media are composed of magnetic crystalline particles having inherent co from crystalline and shape anisotropies. The relationship between the statistical distribution of the particle co
[AbstractPlus](#) | Full Text: [PDF\(244 KB\)](#) IEEE JNL

93. Contact perpendicular recording on rigid media
Hamilton, H.; Anderson, R.; Goodson, K.;
Magnetics, IEEE Transactions on
Volume 27, Issue 6, Nov 1991 Page(s):4921 - 4926
Summary: The authors describe integrated head/flexure structures which have an effective mass of about 30 indication of head crash, and hold the potential for very low wear of both head and media, when operating in conta.....
[AbstractPlus](#) | Full Text: [PDF\(604 KB\)](#) IEEE JNL

94. Microstructural study of electroless-plated CoNiP ternary alloy films for perpendicular magnetic recording
Homma, T.; Inoue, K.; Asai, H.; Ohnri, K.; Osaka, T.;
Magnetics, IEEE Transactions on
Volume 27, Issue 6, Nov 1991 Page(s):4909 - 4911
Summary: The microstructure of electroless CoNiP films with various $H_c(\perp)$ values for use as perpendicular media was investigated. It was observed that the $H_c(\perp)$ values of the films varied
[AbstractPlus](#) | Full Text: [PDF\(308 KB\)](#) IEEE JNL

95. Perpendicular magnetic recording process of electroless-plated CoNiReP/NiFeP double-layered media heads
Osaka, T.; Homma, T.; Noda, K.; Watanabe, T.; Goto, F.;
Magnetics, IEEE Transactions on
Volume 27, Issue 6, Nov 1991 Page(s):4963 - 4965
Summary: Electroless-plated CoNiReP/NiFeP double-layered (DL) media with various underlayer coercivities were examined to study perpendicular recording performance using ring-type heads. For the case of a DL medium
[AbstractPlus](#) | Full Text: [PDF\(232 KB\)](#) IEEE JNL

96. Recording characteristics for highly oriented Ba-ferrite flexible disks
Yamamori, K.; Tanaka, T.; Jitosho, T.;
Magnetics, IEEE Transactions on
Volume 27, Issue 6, Nov 1991 Page(s):4960 - 4962
Summary: The effects of perpendicular orientation and coercivity on short wavelength recording characteristics of flexible disks (FDs) were investigated. The experimental results indicate that the short wavelength output is related to....
[AbstractPlus](#) | Full Text: [PDF\(272 KB\)](#) IEEE JNL

97. New concepts for perpendicular magnetic recording hard disk system
Nakamura, Y.; Muraoka, H.;
Magnetics, IEEE Transactions on
Volume 27, Issue 6, Nov 1991 Page(s):4555 - 4560
Summary: Novel concepts for perpendicular magnetic recording are proposed. Recording mechanism analysis, interface, and a narrow track single-pole head are described. A finite-element method simulation, with accurate estimates d....
[AbstractPlus](#) | Full Text: [PDF\(492 KB\)](#) IEEE JNL

98. Recording characteristics of electroless-plated perpendicular recording flexible disks with a perpendicular magnetic head
Matsubara, H.; Mizutani, H.; Mitamura, S.; Osaka, T.;
Magnetics, IEEE Transactions on
Volume 26, Issue 3, May 1990 Page(s):1210 - 1212
Summary: Perpendicular magnetic recording using a main-pole-driven perpendicular head was tested using flexible disks. Soft magnetic NiFeP films, also produced by electroless plating, were used as an underlayer of recording
[AbstractPlus](#) | Full Text: [PDF\(204 KB\)](#) IEEE JNL

99. Recording characteristics of perpendicular magnetic hard disk measured by nonflying single-pole head
Nakamura, Y.; Ouchi, K.; Yamamoto, S.; Watanabe, I.;
Magnetics, IEEE Transactions on
Volume 26, Issue 5, Sep 1990 Page(s):2436 - 2438
Summary: A contact recording experiment using perpendicular magnetic hard disks was conducted with a nonflying type magnetic head to investigate the practical feasibility of extremely high-density magnetic recording. A single pole produces an....
[AbstractPlus](#) | Full Text: [PDF\(268 KB\)](#) IEEE JNL

100. Magnetic properties of Fe-Co nitride thin films. II
Takahashi, S.; Kume, M.; Matsuura, K.;
Magnetics, IEEE Transactions on
Volume 26, Issue 5, Sep 1990 Page(s):1632 - 1634
Summary: For pt.I see ibid., vol.23, p.3630 (1987). The magnetic properties of Fe-Co nitride thin films prepared

assisted vapor deposition) method with normal incidence of metal vapor to the substrate were investigated. It
sui.....

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